

CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

1. A pull-chain switch system for allowing a user to conveniently and efficiently operate a pull-chain switch comprising, in combination:

a pull-chain switch having an externally threaded mounting portion with a passageway there through the mounting portion having a first diameter, and a switch portion having a first length of ball-chain coupled to the switch comprising a spring of a first stiffness, with the ball-chain coupled to the spring and protruding from and passing through the passageway;

a switch subassembly having a mount and a pin and a pair of discs and a spring and a nut, the mount having an attachment portion having an upper end and a lower end and an inside surface and an outside surface, the attachment portion having an aperture there through the aperture having a second diameter with the second diameter being larger than the first diameter, the upper end with the aperture being sized to loosely receive the externally threaded mounting portion of the pull-chain switch, the mount having a brace portion being perpendicular to the attachment portion with an inward end and an outward end with the

inward end of the brace being coupled to the attachment portion with the brace and being located in a position below the attachment aperture, the outward end of the brace having an upper-to-lower slot running there through, the slot bifurcating the outward end of the brace, with each of the bifurcated ends of the brace having an in-line pin aperture there through, the subassembly having a pair of discs being a first disc and a second disc, with each disc having an inward surface and an outward surface with that thickness there between, with each disc having a raised central portion of a second length and a third diameter and having a pin aperture of a fourth diameter there through, with each disc having an extending arm coupled to the inner surface with the arm and extending away from the disc, the arm having thickness of the second length with each of the arms having a similarly located pull-string aperture there through, with one of the discs having a spring aperture there through, the subassembly having a coiled spring having a second stiffness, the second stiffness being greater than the first stiffness, the spring having a central opening of a fifth diameter being slightly larger than the third diameter with the spring having a fixation end and a hooked pull-chain attachment end, the subassembly having a pin of a fourth diameter and sized to be

securely held within the pin aperture of the discs, the pin passing through the pin aperture of the first disc then the spring central opening and then the pin aperture of the second disc thereby coupling the spring between the two discs, with the fixation end of the spring then being coupled with the spring aperture of one of the discs and the hooked pull-chain end of the spring being movable in position between the two discs, with the subassembly having a nut having an inward end having a second external diameter and an outward end having a third external diameter and a length there between, the nut having an internal thread sized to be securely received by the thread of the externally threaded mounting portion of the pull-chain switch, with the inward end being firmly received by the attachment aperture of the mount; and

a pull-string coupled to the extending arms of the discs for allowing a user to activate the pull-chain switch.

2. A pull-chain switch system comprising, in combination:

a pull-chain switch;

a switch subassembly having mounting portion and a pivoting member and a spring;

a means for coupling the subassembly to the pull-chain switch.

3. A pull-chain switch system as described in Claim 2 wherein the pivoting member is disc shaped.

4. A pull-chain switch system as described in Claim 2 wherein the spring is coil shaped.

5. A pull-chain switch system as described in Claim 2 wherein the spring is linear in overall shape.

6. A method for allowing a user to conveniently and efficiently use a pull-chain switch comprising, in combination:

providing a pull chain switch having a pull chain coupled thereto, the switch having a spring having a first stiffness;

providing a pivotable member coupled to the switch, the pivotable member having a spring of a second stiffness coupled thereto;

providing an pulling means being coupled to the pivotable member thereby allowing a user to pull on the pulling means and cause a rotation of the pivotable member, thereby activating the pull-chain switch.